IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Chennakeshu	
Application No.: 09/237,356	Group Art Unit: 2681
Filed: 01/26/1999	Examiner: Kumar
Title: Reduced Complexity MLSE Equalizer For M-ary Modulated Signals	

RESPONSE/AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231
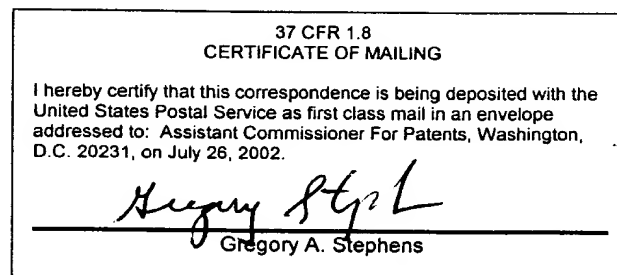
Dear Sir:

In view of the Office Action of February 27, 2002 pertaining to the above referenced case, applicant responds as follows.

Please amend this application as follows:

In the claims:

1. (Amended) A method for determining a branch metric in a maximum-likelihood-sequence-estimation equalizer which receives at least one antenna signal modulated with M-ary modulation, said method comprising the steps of:

pre-computing values equal to a product of a complex number and a hypothetical symbol value;

storing said pre-computed values in a product look-up table;

adding select pre-computed values from said product look-up table to produce a result; and

determining said branch metric using said result.